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WHAT IS CLAIMED IS:

1. A recording apparatus for attaching, to binary data, meta-data as information related to the binary data, characterized by comprising:

meta-data generation means for generating the meta-data;

binary data to which the meta-data is to be attached; and meta-data attaching means for attaching the meta-data to a plurality of binary data generated by said binary data generation means to generate binary data having meta-data.

binary data generation means for generating the

- 2. The recording apparatus according to claim 1, characterized by further comprising storage means for storing the binary data having meta-data outputed by said meta-data attaching means.
- 3. The recording apparatus according to claim 1, characterized by further comprising binary data having meta-data write means for writing the binary data having meta-data outputed by said meta-data attaching means in a detachable storage medium or external device.
- 4. The recording apparatus according to claim 2, characterized by further comprising binary data having meta-data write means for writing the binary data having meta-data stored in said storage means in a detachable storage medium or external device.

The recording apparatus according to claim 1, characterized in that

said apparatus further comprises meta-data loading means \backslash for loading meta-data stored in advance in a detachable storage medium or external device, and

said meta-data attaching means attaches the binary data to generate the binary data having meta-data.

6. The recording apparatus according to claim 1, characterized in that

said apparatus further comprises binary data loading means for loading binary data stored in a first detachable storage medium or external device, and

said meta-data attaching means attaches the meta-data to the binary data loaded by said binary data loading means to generate the kinary data having meta-data.

- 7. The recording apparatus according to claim 6, characterized by further compriting binary-data having meta-data write means for writing \backslash the binary data having meta-data outputed by said meta-data attaching means in the first storage medium as a loading sour $\diamond e$ of the binary data.
- The recording apparatus according to claim 6, characterized by further comprising binary-data having meta-data write means for writing the binary data having meta-data stored in said storage means in the first storage medium as a loading source of the binary data.

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The recording apparatus according to claim 1, characterized in that said meta-data attaching means embeds the meta-data to a predetermined position of the binary data.

- 10. The recording apparatus according to claim 1, characterized in that said meta-data attaching means attaches only information representing a file name of the meta-data or a location of the meta-data to a predetermined position of the binary data.
- 10 11. A recording method of attaching, to binary data, meta-data as information related to the binary data, characterized by comprising:
 - a meta-data generation step of generating the meta-data;
 - a binary data generation step of generating the binary data to which the meta-data is to be attached; and
 - meta-data attaching step of attaching the same meta-data to a plurality of binary data generated in the binary data generation step to generate binary data having meta-data.
 - 12. The recording method according to claim 11, characterized by further comprising the storage step of storing the binary data having meta-data outputed by the meta-data attaching step.
- 25 13. The recording method according to claim 12, characterized by further comprising the binary data having

meta-data write step of writing the binary data having meta-data outputed by the meta-data attaching step in a detachable storage medium or external device.

- 14. The recording method according to claim 12, characterized by further comprising the binary data having meta-data write step of writing the binary data having meta-data stored in the storage step in a detachable storage medium or external device.
- 15. The recording method according to claim 11, characterized in that

said recording method further comprises the meta-data loading step of loading meta-data stored in advance in a detachable storage medium or external device, and

the meta-data attaching step comprises attaching the meta-data loaded in the meta-data loading step to the binary data to generate the binary data having meta-data.

16. The recording method according to claim 11, further characterized in that

the recording method further comprises binary data loading step of loading the binary data stored in a first detachable storage medium or external device, and

the meta-data attaching step comprises attaching the meta-data to the binary data loaded in the binary data loading step to generate the binary data having meta-data.

17. The recording method according to $c\$ aim 16,

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characterized by further comprising the binary-data having meta-data write step of writing the binary data having meta-data outputed by the meta-data attaching step in the first detachable storage medium as a loading source of the binary data.

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- 18. The recording method according to claim 16, characterized by further comprising the binary-data having meta-data write step of writing the binary data having meta-data stored in the storage step in the first detachable storage medium as a loading source of the binary data.
- 19. The recording method according to claim 11, characterized in that the meta-data attaching step comprises embedding the meta-data to a predetermined position of the binary data.
- 15 20. The recording method according to claim 11, characterized in that the meta-data attaching step comprises attaching only information representing a file name of the meta-data or a location of the meta-data to a predetermined position of the binary data.
- 20 21. A storage medium which stores a processing program for attaching, to binary data, meta-data as information related to the binary data, the processing program comprising:
- a meta-data generation step of $\sqrt{\text{generating the}}$
 - a binary data generation step of generating the

 $oldsymbol{\lambda}$ inary data to which the meta-data is to be attached; and a meta-data attaching step of attaching the same metà-data to a plurality of binary data generated in the binary data generation step to generate binary data having meta-data.

22. A Necording apparatus for attaching, to binary data, meta-data as information related to the binary data, characterized by comprising:

meta-data generation means for generating the meta-data;

binary data \(\)oading means for loading the binary data to which the meta-data is to be attached from a first detachable storage medium or external device; and

meta-data attaching means for attaching the same meta-data to a plurality δf binary data loaded by said meta-data.

- The recording apparatus according to claim 22, characterized by further comprisitg storage means for storing the binary data having meta-data outputted by said meta-data attaching means.
- The recording apparatus according to claim 22, characterized by further comprising binaty data having meta-data write means for writing the binaky data having meta-data output from said meta-data attaching $\mbox{\sc means}$ in the first detachable storage medium or external device as a

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lading source of the binary data.

25. The recording apparatus according to claim 22, characterized by further comprising binary data having meta-data write means for writing the binary data having meta-data output from said meta-data attaching means in a second detachable storage medium or external device different from a loading source of the binary data.

- 26. The recording apparatus according to claim 23, characterized by further comprising binary data having meta-data write means for writing the binary data having meta-data stored in said storage means in the first storage medium as a loading source of the binary data.
- 27. The recording apparatus according to claim 23, characterized by further comprising binary data having meta-data write means for writing the binary data having meta-data stored in said storage means in a second detachable storage medium or external device different from a loading source of the binary data.
- 28. The recording apparatus according to claim 22, 20 further characterized in that

said recording apparatus further comprises loading means for loading meta-data stored, in advance, in a detachable storage medium or external device, and

said meta-data attaching means attaches the

25 meta-data loaded by said meta-data loading means to the binary data.

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20. The recording apparatus according to claim 22, characterized in that said meta-data attaching means embeds the meta-data to a predetermined position of the binary data.

- 30. The recording apparatus according to claim 22, characterized in that said meta-data attaching means attaches only information representing a file name of the meta-data or a location of the meta-data to a predetermined position of the binary data.
- 10 31. A recording method of attaching, to binary data, meta-data as information related to the binary data, characterized by comprising:

a meta-data generation step of generating the meta-data;

a binary data loading step of loading the binary data to which the meta-data is to be attached from a first detachable storage medium or external device; and

a meta-data attaching step of attaching the same meta-data to a plurality of binary data loaded in the binary data loading step to generate binary data having meta-data.

- 32. The recording method according to claim 31, characterized by further comprising a storage step of storing the binary data having meta-data output in the meta-data attaching step.
- 25 33. The recording method according to claim 31, characterized by further comprising a binary data having

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meta-data write step of writing a binary data having meta-data outputed by the meta-data attaching step in the first storage medium as a loading source of the binary data.

- 34. The recording method according to claim 31, characterized by further comprising the binary-data having meta-data write step of writing the binary data having meta-data outputed by the meta-data attaching step in a second detachable storage medium or external device different from a loading source of the binary data.
- 10 35. The recording method according to claim 32, characterized by further comprising the binary data having meta-data write step of writing the binary data having meta-data stored in the storage step in the first detachable storage mediums a loading source of the binary data.
- 15 36. The recording method according to claim 32, characterized by further comprising binary data having meta-data write step of writing the binary data having meta-data stored in the storage step in a second detachable storage medium or external device different from a loading source of the binary data.
 - 37. The recording method according to claim 31, characterized in that

the recording method further comprises a loading step of loading meta-data stored, in advance in a detachable storage medium or external device, and

the meta-data attaching step comprises attaching the

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meta-data loaded in the meta-data loading step to the binary data.

- 38. The recording method according to claim 31, characterized in that the meta-data attaching step comprises embedding the meta-data to a predetermined position of the binary data.
- 39. The recording method according to claim 31, characterized in that the meta-data attaching step comprises attaching only information representing a file name of the meta-data or a location of the meta-data to a predetermined position of the binary data.
- 40. A storage medium which stores a processing program for attaching, to binary data, meta-data as information related to the binary data, the processing program comprising:

a meta-data generation step of generating the meta-data;

a binary data loading step of loading the binary data to which the meta-data is to be attached from a first detachable storage medium or external device; and

a meta-data attaching step of attaching the same meta-data to a plurality of binary data loaded in the binary data loading step to generate binary data having meta-data.

41. A recording apparatus for attaching, to binary data,
25 meta-data as information related to the binary data,
characterized by comprising:

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meta-data loading means for loading the meta-data from a first detachable storage medium or external device; binary data generation means for generating the binary data; and

meta-data attaching means for attaching the same meta-data loaded by said meta-data loading means to a plurality of binary data generated by said binary data generation means to generate binary data having meta-data.

- 42. The recording apparatus according to claim 41, characterized by further comprising storage means for storing the binary data having meta-data outputed by said meta-data attaching means.
- 43. The recording apparatus according to claim 41, characterized by further comprising binary data having meta-data write means for whiting the binary data having meta-data output from said meta-data attaching means in the first storage medium or external device as a loading source of the meta-data.
- 44. The recording apparatus according to claim 41, characterized by further comprising binary data having meta-data write means for writing the binary data having meta-data outputed by said meta-data attaching means in a second detachable storage medium or external device different from a loading source of the binary data.
- 25 45. The recording apparatus according to claim 41, characterized by further comprising binary-data having

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meta-data write means for writing the binary data having meta-data stored in said storage means in the first detachable storage medium as a loading source of the meta-data.

46. The recording apparatus according to claim 41, characterized by further comprising binary data having meta-data write means for writing the binary data having meta-data stored in said storage means in a second detachable storage medium or external device different from a loading source of the meta-data.

47. The recording apparatus according to claim 41, characterized in that

means for loading binary data stored in advance in a detachable storage medium or external device, and

said meta-data attaching means attaches the meta-data loaded by said meta-data loading means to the binary data to generate the binary data having meta-data.

- 48. The recording apparatus according to claim 41,
 20 characterized in that said meta-data attaching means embeds
 the meta-data to a predetermined position of the binary
 data.
 - 49. The recording apparatus according to claim 41, characterized in that said meta-data attaching means attaches only information representing a file name of the meta-data or a location of the meta-data to a predetermined

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position of the binary data.

A recording method of attaching, to binary data, meta data as information related to the binary data, characterized by comprising:

a\meta-data-loading step of loading the meta-data from a first detachable storage medium or external device;

a binary data loading step of loading the binary data from the first detachable storage medium or external device; and

a meta-data attaching step of attaching the same meta-data loaded in the meta-data loading step to a plurality of binary data loaded in the binary data loading step to generate binary data having meta-data.

- 51. The recording method according to claim 50, characterized by further comprising the storage step of storing the binary data having meta-data outputed by the meta-data attaching step.
- 52. The recording method according to claim 50, characterized by further comprising the binary data having meta-data write step of writing the binary data having meta-data outputed by the meta-data attaching step in the first storage medium or external device as a loading source of the binary data.
- 53. The recording method according to claim 50,

 25 characterized by further comprising the binary data having meta-data write step of writing the binary data having

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meta-data outputed by the meta-data attaching step in a second detachable storage medium or external device different from a loading source of the binary data.

- 54. The recording method according to claim 50, characterized by further comprising the binary data having meta-data write step of writing the binary data having meta-data stored in the storage step in the first storage medium as a loading source of the binary data.
- 55. The recording method according to claim 50, characterized by further comprising the binary data having meta-data write step of writing the binary data having meta-data stored in the storage step in a second detachable storage medium or external device different from a loading source of the binary data.
- 56. The recording method according to claim 50, characterized in that

said method further comprises the binary data loading step of loading binary data stored, in advance, in a detachable storage medium or external device, and

the meta-data attaching step comprises attaching the meta-data loaded in the meta-data loading step to the binary data to generate the binary data having meta-data.

57. The recording method according to claim 50,

characterized in that the meta-data attaching step comprises embedding the meta-data to a predetermined position of the binary data.

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The recording method according to claim 50, characterized in that the meta-data attaching step comprises attaching only information representing a file name of the meta-data or a location of the meta-data to a predetermined position of the binary data.

59. A storage medium which stores a processing program for attaching, to binary data, meta-data as information related to the binary data, the processing program comprising:

a meta-data loading step of loading the meta-data from a first detachable storage medium or external device;

a binary data loading step of loading the binary data from the first detachable storage medium or external device; and

a meta-data attaching step of attaching the same meta-data loaded in the meta-data loading step to a plurality of binary data loaded in the binary data loading step to generate binary data having meta-data.

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